



Fact-Sheet UNICORE XUADB

Context

- UNICORE Grid Middleware component
- Component for Authorization

Description

- Web Services-based UNICORE User Database
- One XUADB can be the authorization service for several UNICORE Virtual Sites (VSites)

Architecture

- java:document-style service running with Java SOAP framework XFire 1.2
 - XFire uses jetty 5 as container for Web services. Jetty is an open-source, standards-based, full-featured web server implemented entirely in Java.
- Uses plugin functionality of the UNICORE Network Job Supervisor (NJS)
 - njs.properties:
uudb.class_name=org.unicore.fzj.xuadb.client.uudb.UnicoreUserImpl
xuadb_http_host=https://server.host
xuadb_http_port=12345
xuadb_gcId=grid component ID for identifying the NJS
xuadb_use_ssl=true|false
xuadb_keystore_file=/path/to/keystore/ks.p12
xuadb_keystore_password=*****
- XUADB Server runs a small SQL database. Table:
 - GcID : VARCHAR(32) // id of VSite
 - Xlogin : VARCHAR(32) // basic UNIX login
 - Certificate : VARCHAR(4096) // public key of user/NJS (PEM)
 - Role : VARCHAR(16) // User, Administrator, NJS, Trusted_NJS
 - Projects : VARCHAR(128) // comma separated list for further differentiation
 - UNIQUE (GcID, Certificate)
- XUADB Server main class: org.unicore.fzj.xuadb.server.XUADBServer
- NJS uses the UADB interface of the com.fujitsu.arcon.njs.interface.UnicoreUserDB
- NJS is adapted by a client that uses WS calls to access the WS-based UADB
- NJS XUADB Client is inherited from the abstract class com.fujitsu.arcon.njs.interface.UnicoreUserDB
- There is also an admin-tool implemented for administration of the XUADB

Links

- <http://www.unicore.eu>

Contact

- Bastian Tweddell, FZJ, Germany (b.tweddell@fz-juelich.de)

